

HOT SWAPPING MEMORY METHOD AND SYSTEM

ABSTRACT OF THE INVENTION

A method of hot swapping memory is described. A memory system includes a plurality of memory banks such that a memory word is divided into the memory banks. The memory system is provided a spare memory bank. One of the memory banks is selected to replace. The memory system is configured to perform write operations associated with the selected memory bank to both the selected and spare memory banks. Atomic read and write operations are performed such that the content of the selected memory bank is copied to the spare memory bank. The memory system is configured to redirect operations to be performed on the selected memory bank to the spare memory bank such that the selected memory bank can be hot replaced.